



Opportunities for Data Exchange

Researchers and Funders: Tales of Challenges and Change

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Hans Pfeiffenberger

Alfred Wegener Institut, Helmholtz Association



BACKGROUND



Opportunities for Data Exchange

BACKGROUND



Illustration: <http://www.nature.com/news/specials/datasharing/index.htm>



ODE's Task

- Take a **fresh look** at and identify barriers and drivers to data sharing
 - by interviewing distinguished representatives of all stakeholder groups
 - by collecting "success stories", "near misses" and "**honourable failures**" in data sharing, re-use and preservation.



Barriers and Drivers



To Unravel Complexity

- Extract meaningful, to the point information and actionable advice
- **Short paper per group of stakeholders**
 - Why should you care?
 - What are our credentials?
 - What has ODE learned from others (about you)
 - What you can do
- **Advisable actions with highest impact only**
 - For more: [read full reports](#)



One of ODE's TALES



Karin Lochte

Vice-President Helmholtz Assoc., member German Science Council, EC-expert group on Research Infrastructures, ...



Researchers: Why Care?

- Successful examples, such as sharing data through the Worldwide Protein Data Bank, Pangaea and GenBank, ...
 - reminds also of major differences between disciplines
 - ... sharing in your discipline may be worth the effort as well.
 - there are (many) more examples too difficult to be presented in half a paragraph: GalaxyZoo, World Met. Org.



Others' Views for Researchers

- ... publishers make it clear that their own infrastructure might not be sufficient to preserve data ...
 - researchers will not be aware of publishers' problems
- Data centres and libraries are willing to work with you on an incentive system ... they will offer advice and training on finding, preparing and managing data.
 - researchers will not expect libraries and data centers to be active players in the areas of incentives (evaluation) and data management



What Researchers Can Do (I)

- ... (everybody) depend(s) on your learned societies' or editorial boards' views ... formulate rules for appropriate data management plans and best practice for sharing.
- regarding matters of "culture", societies and editorial boards are the most authoritative entities for researchers
 - more so than their institutions!
 - If policies run counter to culture, researchers will dodge



What Researchers Can Do (2)

- ... identify the best providers of data stewardship and work with them ... If capable providers do not exist ... you should communicate this to your research funders.
 - researchers are the most credible source of guidance for data managing institutions as well as for funding agencies
 - they must not expect to get good infrastructure without their own activity



One of ODE's HYPOTHESES



“Without the **infrastructure** that **helps scientists manage their data** in a **convenient and efficient way**, no culture of data sharing will evolve.”

Stefan Winkler-Nees
Deutsche Forschungs-Gemeinschaft (DFG)



Others‘ Views for Funders

- Researchers have to balance priorities of data ... sharing with pressures such as publication of papers.
- hint: It is ***you*** who hold researchers back from sharing by “data-blind” evaluation and funding criteria
- ... sustainable solution lies in the distributed data infrastructure ...
- Don’t even try to enforce simple solutions



What Funders Can Do

- ... promote explicit funding for data management in research grants ...
 - this is the most effective, plausible way to establish funding for data stewardship (perhaps not clear to every funder)
- ... data skills training in postgraduate courses.
 - we encountered the skills/training question ever so often. Postgraduate education is the most obvious first step



Conclusion

- From a rich and complex source of information on data sharing
 - We extracted and prioritized challenges to researchers and funders (why care and what you can do)
 - We transferred evidence and enablers of change between disciplines and stakeholder domains



ODE Results

- <http://www.ode-project.eu/ode-outputs>
- In particular:
 - Briefing sheets
 - Ten Tales
- All interviews in “Baseline Report on Drivers and Barriers in Data Sharing”

